

ABSTRACT

A balancing and equilibration device for suspended elements, e.g. doors, pieces of furniture, and windows that can be moved vertically, to allow their easy movement and balanced positioning at any point of their vertical travel. Supporting ropes are wound up to be translated in spiroid rims of a pair of opposing pulleys, the pulleys being integral with each other via a shaft rotatable on a bearing structure. The shaft is concentric to a helical spring that includes one end integral with the shaft and another end integral with a friction disc that can be blocked to its support to block the other end of the spring, whose opposite side is bound to turn with the shaft to increase or decrease its torsion reaction with changing movement of the pulleys, to assure balancing of the balanced translation of the element on a frame to be vertically covered or uncovered.